Power Supplies

Electrical & Power

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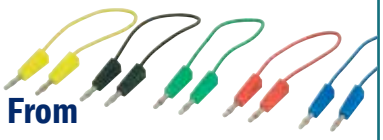

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Bench Power Supplies 828
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Plug-in Power Supplies 835

Bench Power Supplies

5V 1A Regulated Power Supply

A sturdy regulated power supply delivering 5V at a maximum of 1A. Ideally suited to teaching bulb and switch work in both primary and secondary schools, and electronics teaching.

- Suitable for powering most electronics teaching kits
- Output is delivered via colour coded 4mm terminals
- Monitored by an LED which indicates normal/short circuit conditions by its colour
- Short circuit protected
- An internal control allows the output to be preset within the range 5-8.5V
- The supply is enclosed in a sturdy fully earthed steel case and is supplied complete with mains lead and instructions
- Dimensions 120 x 110 x 150mm

Technical specification

Output voltage	+5V
Output current	1A max Overload and short circuit protected
Load regulation	0.1%
Line regulation	0.05%
Ripple	5mV rms max
Mains input	210 to 250V 50/60Hz
Weight	1kg

Type	Order code	1+
5V 1A Supply	**85-1725**	53.42

065043

Dual Rail 100mA Regulated Power Supply

A rugged power supply offering dual rail voltage output with twice the current output usually available in units of this type.

- Output is 15-0-15V at 100mA per rail.
- The unit is designed for powering operational amplifiers
- Features short circuit protection and output status monitoring via tricolour LEDs
- Output is via colour coded 4mm terminals
- The supply is enclosed in a sturdy fully earthed steel case
- Supplied complete with mains lead and comprehensive instruction manual
- Ideal for laboratory and educational use
- Dimensions 120 x 110 x 150mm

Technical specification

Output voltage	+15, 0, -15V
Output current	100mA max per rail Overload and short circuit protected
Load regulation	0.1%
Line regulation	0.1%
Ripple	5mV rms max
Mains input	210 to 250V 50/60Hz
Weight	850g

Type	Order code	1+	5+
15V 100mA Supply	**85-1720**	57.34	53.83

065044

Single Output 100W DC Power Supply

A range of portable single output 100W DC Power Supplies. They are variable DC switched mode power supplies with an 85% efficiency rating and are available with a chouce of output voltages and currents.

The power supplies offer OVP (over voltage protection) to protect sensitive equipment from low residual ripple and automatic switching between constant voltage and constant current modes.

These portable power supplies are suitable for use in labs, education or in the hobbyist workshop.

- Outputs: 1
- Max power: 100W
- Voltage setting range: 0.4 to 20V DC
- Current setting range: 0 to 5A
- PSU Technology: Switched Mode
- Type: Bench, Tower

Downloadable datasheets
www.rapidonline.com

Technical specification

Order code	51-6772	51-6773	51-6774
Type	LRP-1205	LRP-1363	LRP-1601
Inputs	1	1	1
Input voltage	230V AC	230V AC	230V AC
Input voltage range	200 to 240V AC	200 to 240V AC	200 to 240V AC
Load control	20mA	20mA	20mA
Mains control	20mV	20mV	20mV
Number of outputs	1	1	1
Output power	100W	100W	100W
Output current	0 to 5A	0 to 3A	0 to 1.6A
Output voltage	0.4 to 20V DC	1 to 36V DC	1 to 60V DC
Dimensions W x H x D (mm)	70 x 150 x 250	70 x 150 x 250	70 x 150 x 250
Weight	2kg	2kg	2kg

Type	Order code	1+
LRP-1205	**51-6772**	81.09
LRP-1363	**51-6773**	81.09
LRP-1601	**51-6774**	81.09

526006

100W Single Output DC Power Supply

A range of Voltcraft 100W Single Output DC Power Supplies from the LSP series. These power supplies feature a highly developed switched mode technology and have an efficiency rating of 85%.

They are slim line and lightweight in design (2kg) meaning they consume little space in workshops or labs and can be easily transported.

All models have a convenient backlit 4 digit LCD display. OVP (over voltage protection) integrated on the outputs, offering protection from potentially harmful voltage spikes.

- Available in a choice of output voltages and currents
- PSU Technology: Switched Mode
- Type: Bench

Technical specification

Order code	51-6777	51-6778	51-6779
Type	LSP-1205	LSP-1363	LSP-1601
Inputs	1	1	1
Input voltage	230V AC	230V AC	230V AC
Input voltage range	200 to 240V AC	200 to 240V AC	200 to 240V AC
Load control	20mA	20mA	20mA
Mains control	20mV	20mV	20mV
Number of outputs	1	1	1
Output power	100W	100W	100W
Output current	0 to 5A	0.15 to 3A	0 to 1.6A
Output voltage	1 to 20V DC	1 to 36V DC	1 to 60V DC
Dimensions W x H x D (mm)	70 x 150 x 250	70 x 150 x 250	70 x 150 x 250

Type	Order code	1+
LSP-1205	**51-6777**	96.39
LSP-1363	**51-6778**	96.39
LSP-1601	**51-6779**	96.39

526008

PS-1152A, 22.5W Single Output DC Bench Power Supply, Linear, Variable

At just 16cm wide, the Voltcraft PS-1152A makes an ideal basic space saving bench power supply for lower voltage ranges from 1.5V to 15V.

This electronically regulated linear power supply has a fixed current limit at 1.5A. The PS-1152A is protected against overheating and short circuit. The PSU is convection cooled.

- Overheating protection
- Short circuit protection
- Outputs: 1
- Max power: 22.5W
- Voltage setting range: 1.5 to 15V DC
- Current limit: 1.5A
- Analogue display
- Convection cooled
- PSU Technology: Linear

DC bench power supply · Manual · Power cable not included

Technical specification

Calibration possible to:	ISO / DKD
Connections:	4mms security sockets
Dimensions:	135(W) x 88(H) x 167(D)mm
Input voltage range:	230V AC
Inputs:	IEC 320 C14
Number of outputs:	1
Output current 1:	1.5A
Output power:	22.5W
Output voltage 1:	1.5 to 15V DC
PSU type:	Linear
Power:	22.5W
Specification:	Bench
Type (manufacturer type):	PS-1152 A
Weight:	1.9kg

Type	Order code	1+	25+	100+
Voltcraft PS-1152A	**51-1823**	34.73		
Power cable	**23-0698**	1.98	1.89	1.68

523911

VOLTCRAFT®

FLP 126, 82W Single Output Variable DC Power Supply, Linear, Desktop

The Voltcraft FLP 126 is a mains adapter with the two most common output voltages. It is ideal for automotive applications in workshops and laboratories as well as hobby and model making.

- Linear
- 2 selectable fixed voltages
- 12/13.8V DC/ 6A
- Adjustable output voltages
- Power 82W
- Specification: Desktop
- Fine adjustable output voltage (±0.5V)
- Display of voltage and output current
- Overload and short-circuit proof
- Temperature-proof

Technical specification

51-6032	
Connections	4mm safety sockets
Dimensions	210(W) x 105(H) x 215(D)mm
Input voltage range	230V AC
Inputs	Low-power device-panel plug, IEC 320 C14
Load control	<15mV
Mains control	<5mV
Number of outputs	1
Output current 1	6A
Output voltage 1	12/13.8V DC
PSU type	Linear
Power	82W
Residual ripple	<3mVeff
Specification	Desktop
Type (manufacturer type)	FLP 126
Weight	4kg

Type	Order code	1+
DC Power Supply	**51-6032**	63.76

525674

VOLTCRAFT®

PS-1302 D, 60W Single Output Variable DC Power Supply, Linear, Bench

The PS-1302 D from Voltcraft is a basic single output bench power supply that is particularly suitable for education and hobby purposes. This linear regulated PSU offers adjustable voltage 0V to 30V and current limit 0A to 2A. Set values are displayed on the PSUs LCD display.

- Overheating protection
- Short circuit protection
- Adjustable current limiting
- Outputs: 1
- Max power: 60W
- Voltage setting range: 0V to 30V DC
- Current setting range: 0A to 2A
- Convection cooled, rear heatsink, no fans
- PSU Technology: Linear

Please order the appropriate power cable under order code 23-6446 or 35-4485.

DC bench power supply · User manual · Power cable not included, please order separately.

Technical specification

Calibration possible to	ISO/ DKD
Connections	4 mm safety sockets
Dimensions	207(W) x 105(H) x 215(D)mm
Input voltage range	230V AC
Inputs	IEC 320 C14
Number of outputs	1
Output current 1	0A to 2A
Output voltage 1	0V to 30V DC
PSU type	Linear
Power	60W
Specification	Bench
Type (manufacturer type)	PS-1302 D
Weight	3.2kg

Type	Order code	1+	25+	100+
Voltcraft PS-1302 D	**51-1824**	60.78		
Power cable	**23-0698**	1.98	1.89	1.68

523912

VOLTCRAFT®

DC Power Supplies

A range of electronically regulated DC bench power supplies from Voltcraft's reliable VLP series. All PSUs in this series boast excellent residual ripple, load stabilisation and power control values.

- Bench type
- Digital LCD display
- Short circuit protection
- Overheating protection
- Convection cooled (no fans)

Technical specification

Order code	**51-2174**	**51-2175**	**51-2176**
Calibration possible to	ISO / DKD	ISO / DKD	ISO / DKD
Connections	4mm safety sockets	4mm safety sockets	4mm safety sockets
Dimensions (W x H x D)mm	255 x 95 x 245	350x 110 x 245	435 x 110 x 245
Input voltage	230V AC	230V AC	230V AC
Inputs	IEC C14 device connector	IEC C14 device connector	IEC C14 device connector
Number of outputs	2	2	3
Output current 1	0A to 3A	0A to 3A	0A to 3A
Output current 2	2A	0A to 3A	0A to 3A
Output current 3	none	none	2A
Output voltage 1	0V to 30V	0V to 40V	0V to 40V
Output voltage 2	3V to 6V	0V to 40V	0V to 40V
Output voltage 3	none	none	3V to 6V
PSU type	Linear	Linear	Linear
Power	102W	240W	252W
Residual ripple	<2mV	<2mV	<2mV
Specification	Bench	Bench	Bench
Type (manufacturer type)	VLP 1303pro	VLP 2403	VLP 2403pro
Weight	4.6kg	9kg	11kg

Type	Order code	1+
VLP 1303pro	**51-2174**	95.52
VLP 2403	**51-2175**	162.18
VLP 2403pro	**51-2176**	182.38

524072

VOLTCRAFT®

OVP Dual Output Variable DC Power Supply, Linear, Bench

The VLP OVP range from Voltcraft is an electronically regulated power supply with separate voltage and current regulators. The devices are characterized by low ripple and good load and power regulation. All models in the VLP series are convection cooled so they do not have fans.

- Adjustable: OVP (Over Voltage Protection)
- Input voltage: 230V
- Inputs:IEC C14 device connector
- Specification: Bench
- PSU Technology: Linear
- Type: Bench
- Fan less convection cooling
- Can be calibrated to: ISO / DKD

Please Note: *Power cable not included.*

Technical specification

Mftrs Part No:	**VLP1303**	**VLP1405**	**VLP1602**
Order code	**51-7163**	**51-7164**	**51-7165**
Number of outputs:	2	2	2
Weight:	4.6kg	7.5kg	5.8kg
Power:	102W	212W	102W
Inputs:	IEC C14 device connector	IEC C14 device connector	IEC C14 device connector
Output voltage 1:	0 to 30 V	0 to 40 V	0 to 60V
Output voltage 2:	3 to 6 V	3 to 6 V	3 to 6V
Connections:	4mm safety sockets	4mm safety sockets	4mm safety sockets
Can be calibrated to:	ISO / DKD	ISO / DKD	ISO / DKD
Specification:	Bench	Bench	Bench
Input voltage:	230V AC	230V AC	230V AC
Output current 1:	0 to 3A	0 to 5A	0 to 1.5A
Output current 2:	2A	2A	2A
Type:	Linear	Linear	Linear
Dimensions (W x H x D)mm	255 x 110 x 245	350 x 110 x 245	255 x 95 x 245

Mftrs Part No:	**VLP2403**	**VLP2602**
Order code	**51-7166**	**51-7167**
Number of outputs:	3	3
Weight:	11kg	12kg
Power:	252W	252W
Inputs:	IEC C14 device connector	IEC C14 device connector
Connections:	4mm safety sockets	4mm safety sockets
Can be calibrated to:	ISO / DKD	ISO / DKD
Specification:	Bench	Bench
Input voltage:	230V AC	230V AC
Output current 1:	0 to 3A	0 to 2A
Output current 2:	0 to 3A	0 to 2A
Output current 3	2A	2A
Dimensions (W x H x D)mm	435 x 110 x 245	435 x 110 x 245
Output voltage 1:	0 to 40V	0 to 60V
Output voltage 2:	0 to 40V	0 to 60V
Output voltage 3	3 to 6V	3 to 6V
Type:	Linear	Linear

Type	Order code	1+	25+	100+
VLP-1303	**51-7163**	102.15		
VLP-1405	**51-7164**	136.21		
VLP-1602	**51-7165**	99.45		
VLP-2403	**51-7166**	168.01		
VLP-2602	**51-7167**	157.48		
Power cable	**23-0698**	1.98	1.89	1.68

526081

Timed delivery service

See page 1238 for table of charges

Dual Rail 1A Regulated Power Supply

A versatile supply offering a wide range of stabilised DC voltages in both single and dual rail mode. The use of separate 4mm terminals for each of the positive and negative outputs gives the user eleven single rail voltages ranging from 3V to 30V and thirty three dual rail voltages (symmetrical and asymmetrical) in the range 5-0-5V to 15-0-15V.

- A maximum of 1A per rail is available
- All outputs are short circuit protected
- The supply is enclosed in a sturdy steel case which is fitted with a carry handle
- Supplied with mains lead and a comprehensive user manual
- This unit will find a ready home in R + D test laboratories and education
- Dimensions 140 x 125 x 240mm

Technical specification

Output voltage	+15, +12, +5, 0, –5, –12, –15V
Output current	1A max per rail Overload and short circuit protected
Load regulation	0.1%
Line regulation	0.05%
Ripple	5mV rms max
Mains input	210-250V 50/60Hz
Weight	1.65kg

Type	Order code	1+
Dual rail 1A supply	**85-1715**	88.32

065045

6A AC/DC Power Supply

This addition to our range offers AC voltages of 2, 4, 6, 8, 10 or 12V and capacitor smoothed (10,000µF), DC voltages of 1, 4, 7, 10, 13 or 15V.

- Separate AC and DC colour coded terminals are provided
- AC and DC voltages may be used simultaneously up to a maximum combined load of 6 amps
- An earth terminal is also provided should rail clamping be required
- Voltages are selected by a six position keyswitch – the key is removable in any position
- Keys are of a common profile so that one key will switch any unit
- The output voltage is monitored by a sophisticated system which detects overloads, short circuits and cuts power to the terminals under these conditions
- Tripping is indicated by a buzzer sounding and the output monitor LED turning from green to red, thereby allowing the teacher to locate the tripped unit from across the room
- Reset is achieved by switching off the mains switch for 5 seconds
- Unit comes housed in a rugged steel case with carrying handle and is stackable
- Mains input is via a rear panel mounted, fused IEC connector and a detachable IEC lead with moulded mains plug

Technical specification

Output voltage	DC:	1, 4, 7, 10, 13 or 15V
	AC:	2, 4, 6, 8, 10 or 12V
Output current		6A maximum Overload and short circuit protected
Smoothing		10,000µF
Mains input		210 to 250V 50/60Hz
Weight		1.5kg

Type	Order code	1+	5+	10+
6A AC/DC Supply	**85-1740**	140.43	131.07	122.87

065048

4A 13.8V Fixed Output DC Regulated Power Supply (Linear Mode)

A low power, DC regulated power supply that is designed for use with 13.8V DC equipment, such as communications, automotive and marine equipment. Its advanced design mean that this unit is cost effective yet gives good performance with high stability and reliability.

- Fixed 13.8V DC output
- Screw connectors and 12V cigarette lighter accessory socket
- High stability
- Low ripple and noise
- Compact size
- Overload and short circuit protection
- Galvanised steel case
- Polycarbonate front panel
- Cooled by natural convection
- Approved to **CE, EN60065, EN55014**

Technical specification

Order code	85-1714
Input voltage	230V AC 50Hz
Fixed output voltage	13.8V DC
Rated output current	4A
Peak output current	6A
Ripple and noise	6mV
Load regulation	130mV
Line regulation	320mV
Dimensions	160 x 92 x 165mm
Weight	3kg

Type	Rated current	Order code	1+
Fixed o/p PSU	4A	**85-1714**	36.62

077155

10A 0-30V Triple Output Digital DC Regulated PSU

This supply has been designed for use in general electronic servicing in the laboratory, workshop and classroom. It can be used in either constant voltage with current limiting or constant current with voltage limiting modes. Features three independent outputs, two fixed voltage and one variable voltage.

- One 0-30V variable output
- One 5V 500mA output and one 12V 500mA output
- Separate digital voltmeter and ammeter
- Current limiting LED indicator
- Adjustable current control
- Overload and short circuit protection
- Robust, galvanised steel case
- Polycarbonate front panel
- Screw on connector for variable output, snap on connectors for fixed outputs
- Approved to **CE, EN61558, EN55014**

Technical specification

Order code	85-1706
Input voltage	230V AC 50Hz
Output voltage variable	0-30V DC
Rated output current	10A
Output voltage 1	5V DC 500mA (max. 1A)
Output voltage 2	12V DC 500mA (max. 1A)
Ripple and noise	5mV
Load regulation	30mV
Line regulation	10mV
Cooling systems	Thermostatically controlled fan
Dimensions	205 x 125 x 280mm
Weight	6.5kg

Type	Rating	Order code	1+
Triple o/p PSU	10A	**85-1706**	111.34

077152

0-30V Triple Output DC Regulated PSU

This versatile power supply has been designed for use in general electronic servicing in the laboratory, workshop and classroom. All units can be used in either constant voltage with current limiting or constant current with voltage limiting modes. Features three independent outputs, two fixed voltage and one variable voltage.

- One 0 to 30V variable output
- One 5V 500mA output and one 12V 500mA output
- Separate analogue voltmeter and ammeter
- Current limiting LED indicator
- Adjustable current control
- Overload and short circuit protection
- Compact and lightweight
- Robust, galvanised steel case
- Polycarbonate front panel
- Screw on connector for variable output, snap on connectors for fixed outputs
- Approved to **CE, EN60065, EN55014**

Technical specification

Input voltage	230V AC 50Hz
Output voltage variable	0 to 30V DC
Rated output current	2.5A
Output voltage 1	5V DC 500mA (max. 1A)
Output voltage 2	12V DC 500mA (max. 1A)
Ripple and noise	5mV
Load regulation	0.5% +10mV
Line regulation	0.5% +10mV
Cooling systems	Natural convection
Dimensions	150 x 145 x 200mm
Weight	2.8kg

Type	Rating	Order code	1+
Triple o/p PSU	2.5A	**85-1707**	66.11

077154

BASETech

BT-305 Single Output 150W Variable Bench Power Supply

The Basetech BT-305 is a continuously adjustable linear DC Power Supply with specifications and design/build quality that stretch beyond other PSUs in its price bracket.

Both output voltage and current limit can be set independently using the front mounted dials, including fine adjustment for voltage. The BT-305 has two easy to read LED displays, showing the voltage and current output, even when the PSU's output is Off.

Automatic switching between constant voltage and constant current mode, and infinitely adjustable current limiting and output voltage make this power supply unit the perfect entry level model for hobby and model construction.

- Single 0-30V variable output, 0-5A
- Coarse and fine voltage adjustment
- Automatic switching between constant current and constant voltage modes
- Toggle output On/Off, voltage and current remain displayed
- Convenient carrying handle
- Weight 5.3kg
- Manufacturer's part: **Basetech BT-305**

Technical specification

No. of outputs	1 x
Width	130mm
Power	150W
Specification	Desktop
Output current 1	0 to 5A
Inputs	IEC 320 C14 panel plug
Type	BT-305
Connections	4mm banana jack
Output voltage1	0 to 30V DC
Type	Linear
Input voltage	230V AC
Height	155mm
Weight	4.95kg

Type	Order code	1+
Bench power supply	**52-1977**	70.80

544125

★★★★★★★BESTSELLER★★★★★★★

Rapid

30V 2.5A Regulated Power Supply

The Rapid PS3025 is a new high quality, fully regulated, power supply capable of supplying up to 30V at a maximum of 2.5 amps with additional fixed 5V and 12V outputs at 500mA.

- Ideally suited to laboratory test and educational environments
- Voltage and current outputs are individually displayed on liquid crystal displays
- Output voltage is continuously adjustable via a single control from 0 to 30V DC
- Output current limiting is fully adjustable up to 2.5A, again by a single control
- The 30V output is terminated with 4mm colour coded terminals
- The 5V and 12V outputs are terminated via a spring loaded colour coded terminal block
- All outputs are overload and short circuit protected
- The power supply is housed in a sturdy steel enclosure and is supplied with mains lead terminated with a UK mains plug fused at 5A and user instructions

Technical specification

Output 1:	Voltage	0 to 30V DC continuously variable
	Current	0 to 2.5A continuously variable
Output 2:	Voltage	+5V (fixed)
	Current	500mA
Output 3:	Voltage	+12V (fixed)
	Current	500mA
Regulation:	Line	0.05% ±5mV
	Load	0.05% ±5mV
Ripple and noise		0.25mV typical
Power requirement		240V AC 50/60Hz
Weight		4.5Kg
Dimensions		200 x 150 x 145mm

Type	Order code	1+
30V 2.5A Reg. PSU	**85-1705**	77.14

065049

Rapid

3A Switched Output Switch Mode Power Supply

A compact, switch mode power supply that offers six selectable output voltages (3, 4.5, 6, 7.5, 9, 12V), and is rated at 3A output current.

- The power supply is housed in a tough polycarbonate housing
- Output is floated ground (isolated from the mains earth)
- Offers excellent performance and reliability at a low-cost
- Overload and short circuit protection
- Ideal for a wide range of applications, and is especially suited for the educational environment
- Output is via 4mm socket/screw terminals
- Supplied with two sets of leads - one set with crocodile clips and bare ends the other with 4mm plugs and 4-way power plug adaptor
- **CE** approved to **EN60950, EN55011**

Technical specification

Output voltage	3V, 4.5V, 6V, 7.5V, 9V, 12V
Output current	3A
Ripple & noise	10mV rms
Line regulation	60mV
Load regulation	300mV
Dimensions	90 x 50 x 140mm
CE approval	EN60950, EN55011

Type	Order code	1+	5+	10+	50+
3A Switched o/p PSU	**85-1820**	30.82	28.49	26.72	24.98

065050

★★★★★★★★★★★★★★★★★★★★

Rapid

30V Dual Analogue Meter PSU

A range of 30V power supplies that represent outstanding value for money. Compact and rugged, these PSU's feature highly stabilised constant current and constant voltage outputs.

- Available with 3A and 5A maximum outputs
- Separate analogue voltmeter and ammeter
- Fine and coarse adjustment of both voltage and current
- Overcurrent and short circuit protection

Technical specification

Input voltage	220 to 240V AC	
Output voltage	0 - 30V	
Output current	0 - 3A	85-1851
	0 - 5A	85-1852
Source effect	<0.02% +1mV	
Load effect	<0.01% +5mV	
Ripple and noise	<1mV rms	
Dimensions (mm)	291 x 158 x 136	
Weight (kg)	6	

Type	Output current	Order code	1+	3+	10+
30V PSU	0-3A	**85-1851**	78.13	68.78	61.76
30V PSU	0-5A	**85-1852**	93.16	81.46	73.27

074609

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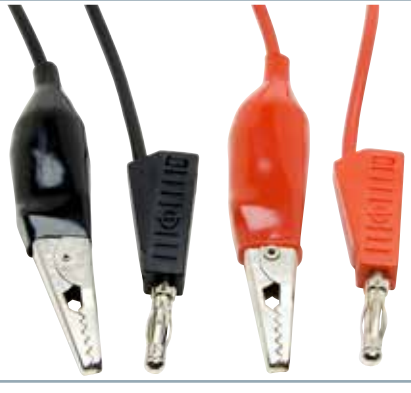
4mm Stackable Plugs to Crocodile Clips 500mm Test Leads



50V Dual LED Meter PSU

A range of 50V power supplies with dual LED displays for separate voltmeter and ammeter. These value for money units are compact enough to fit on any workbench.

- Available with 2A and 3A maximum outputs
- Two 3½ digit LED displays - ammeter and voltmeter
- Fine and coarse adjustment of both voltage and current
- Overcurrent and short circuit protection

Technical specification

Input voltage	220 to 240V AC	
Output voltage	0 - 50V	
Output current	0 - 2A	85-1858
	0 - 3A	85-1859
Source effect	<0.02% +1mV	
Load effect	<0.01% +5mV	
Ripple and noise	<1mV rms	
Display accuracy	Voltage ±1% +2 digits	
	Current ±1.5% +2 digits	
Dimensions	291 x 158 x 136mm	
Weight	6kg	

Type	Output current	Order code	1+	3+	10+
50V PSU	0-2A	**85-1858**	106.49	91.28	56.16
50V PSU	0-3A	**85-1859**	70.38		

074612

18V Dual LCD Meter PSU

A range of value for money 18V power supplies with dual LCD meters that are compact enough to fit on any workbench.

- Available with 2A and 3A maximum outputs
- Highly stabilised constant current and constant voltage outputs
- Two 3½ digit LCD displays - ammeter and voltmeter
- Adjustment of both voltage and current
- Overcurrent and short circuit protection

Technical specification

Input voltage	220 to 240V AC		
Output voltage	0 - 18V		
Output current	0 - 2A	85-1853	
	0 - 3A	85-1854	Linear
Source effect	<0.02% +1mV		
Load effect	<0.01% +5mV		
Ripple and noise	<1mV rms		
Display accuracy	Voltage ±1% +2 digits		
	Current ±1.5% +2 digits		
Dimensions (mm)	291 x 158 x 136mm		
Weight	6kg		

Type	Output current	Order code	1+	3+	10+
18V PSU	0-2A	**85-1853**	80.49	64.10	58.30
18V PSU linear	0-3A	**85-1854**	84.06	67.67	60.66

074610

30V Dual LCD Meter PSU

A range of 30V power supplies with dual LCD displays for separate voltmeter and ammeter. These value for money units are compact enough to fit on any workbench.

- Available with 3A and 5A maximum outputs
- Two 3½ digit LCD displays - ammeter and voltmeter
- Fine and coarse adjustment of both voltage and current
- Overcurrent and short circuit protection

Technical specification

Input voltage	220 to 240V AC	
Output voltage	0 - 30V	
Output current	0 - 3A	85-1856
	0 - 5A	85-1857
Source effect	<0.02% +1mV	
Load effect	<0.01% +5mV	
Ripple and noise	<1mV rms	
Display accuracy	Voltage ±1% +2 digits	
	Current ±1.5% +2 digits	
Dimensions	230 x 160 x 95mm	
Weight	4kg	

Type	Output current	Order code	1+	3+	10+
30V PSU	0-3A	**85-1856**	105.32	90.11	78.42
30V PSU	0-5A	**85-1857**	106.63		

074611

30V Dual Output LCD PSU

A power supply featuring dual variable outputs and dual ammeter and voltmeter displays. This cost effective unit can be used in constant voltage and constant current modes as well as the outputs being configurable to work independently, in series or in parallel.

- Dual 5A maximum outputs
- Independent, series and parallel modes
- 3½ digit LCD displays give voltmeter and ammeter for each output
- Adjustment of both voltage and current
- Overcurrent and short circuit protection

Technical specification

Input voltage	220 to 240V AC
Output voltage	2x 0 - 30V
Output current	2x 0 - 5A
Source effect	<0.02% +1mV
Load effect	<0.01% +5mV
Ripple and noise	<1mV rms
Display accuracy	Voltage ±1% +2 digits
	Current ±1.5% +2 digits
Dimensions	365 x 265 x 164mm
Weight	12kg

Type	Output current	Order code	1+	3+	10+
Twin O/P PSU	2x 0-5A	**85-1861**	279.04	239.24	220.52

074613

Triple Output 30V Linear Bench PSUs

A range of general purpose benchtop linear PSUs that feature dual outputs of 0V to 30V variable and a 5V 3A fixed output.

- Constant voltage and constant current modes
- Features two large red 3½ digit LED displays for ease of viewing
- External switching for independent, tracking, series and parallel modes of operation
- Supplied with mains leads and operating manuals

Technical specification

Model	**HY3002-3**	**HY3003-3**	**HY3005-3**
Order code	**85-1761**	**85-1762**	**85-1763**
Input voltage	110V/220V AC	110V/220V AC	110V/220V AC
Output voltage	2 x 0-30V and 1 x 5V fixed	2 x 0-30V and 1 x 5V fixed	2 x 0-30V and 1 x 5V fixed
Output current	2 x 0-2A and 3A fixed	2 x 0-3A and 3A fixed	2 x 0-5A and 3A fixed
Accuracy	1% voltage, 2% current	1% voltage, 2% current	1% voltage, 2% current
Ripple and noise	≤1mV rms	≤1mV rms	≤1mV rms
Dimensions	365 x 265 x 164mm	365 x 265 x 164mm	365 x 265 x 164mm

Type	Output current	Order code	1+	3+
30V PSU	2A	**85-1761**	98.27	
30V PSU	3A	**85-1762**	138.67	126.97
30V PSU	5A	**85-1763**	154.48	140.43

081535

GW INSTEK

Professional Single Output Bench PSU

This light, compact yet rugged bench linear power supply offers excellent specification at an affordable price. The single output unit can be used in constant voltage and constant current modes and has a remote control for external programming. A bright 3½ LED display can be switched to display either voltage or current setting. Two types are available: 0-18V/5A and 0-30V/3A. Supplied with suitable test leads.

- Series or parallel operation
- Internal select for continuous or dynamic load
- Low ripple and noise
- Overload and reverse polarity protection
- 0.01% high regulation

Technical specification

Rated Output	0-18V, 0-5A	0-30V, 0-3A
Constant voltage		
Line regulation	<0.01% + 3mV	<0.01% + 3mV
Load regulation	<0.01% + 5mV	<0.01% + 3mV
Ripple & noise	<1mVrms	<0.5mVrms
Output range	0 to voltage continuously adjustable	

Constant current		
Line regulation	<0.2% + 3mA	<0.2% + 3mA
Load regulation	<0.2% + 3mA	<0.2% + 3mA
Ripple current	<3mArms	<3mArms
Output current	0 to rated current continuously adjustable	
Dimensions	128 x 145 x 285mm	128 x 145 x 285mm

Type	Order code	1+
0-18V/5A PSU	**85-1808**	126.66
0-30V/3A PSU	**85-1817**	107.18

062151

UNI-T

UTD3700E Series: DC Power Supply

The UNI-T UTD3700E series is a high quality, regulated DC power supply with variable output voltage and current limiting. Suitable for a wide range of applications, from domestic to laboratory and industrial, the UNI-T UTD3700E is one of the most efficient and affordable DC power supplies available.

- Power: 220V ±10%, 50Hz ±4%
- Product Colour: Red and grey
- Product weight: Around 4kg
- Product size: 210mm x 152mm x 305mm
- Standard Accessories: Test lead, English manual and power cord

Technical specification

Order Code	Channel	85-4044	85-4045	85-4046	85-4047	80-4048
Model number		**UTP3701**	**UTP3702**	**UTP3703**	**UTP3704**	**UTP3705**
Output voltage	Ch1	0 to 24V	0 to 32V	0 to 32V	0 to 32V	0 to 32V
	Ch2	0 to 24V	0 to 32V	0 to 32V	0 to 32V	0 to 32V
	Ch3	5V	N/A	5V	5V	N/A
Output current	Ch1	1A	3A	1A	3A	5A
	Ch2	1A	3A	1A	3A	5A
	Ch3	2A	N/A	2A	2A	N/A
Ripple and noise		CV <1mV rms, CC ≤ 1mA rms	CV <1mV rms, CC ≤ 1mA rms	CV <1mV rms, CC ≤ 1mA rms	CV <1mV rms, CC ≤ 1mA rms	CV <1mV rms, CC ≤ 1mA rms

Type	Order code	1+	5+	10+
Uni-T 0-24V DC Power Supply	**85-4044**	83.48	76.02	72.31
Uni-T 0-32V DC Power Supply	**85-4045**	121.29	110.45	105.05
Uni-T 0-32V DC Power Supply	**85-4046**	124.43	113.33	107.77
Uni-T 0-32V DC Power Supply	**85-4047**	130.72	119.06	113.23
Uni-T 0-32V DC Power Supply	**85-4048**	165.39	150.62	143.23

400405

GW INSTEK

Professional Dual Variable Output PSU with Fixed 5V

This light, compact yet rugged bench linear power supply offers excellent specification at an affordable price. The dual variable output unit can be used in constant voltage and constant current modes plus the outputs can be independent, auto series or parallel configured. Also a fixed 5V/3A output is provided. A bright 3½ LED display can be switched to display either voltage or current setting.

- Dual 0-18V/5A
- Supplied with suitable test leads
- Triple output
- Auto tracking
- Auto series or parallel operation
- Internal select for continuous or dynamic load
- Low ripple and noise
- Overload and reverse polarity protection
- Constant voltage and constant current operation

Technical specification

Rated variable outputs	0-18V, 0-5A
Fixed output	5V, 3A
Operation modes	
Independent	Outputs from 0 to rated voltage, and 0 to rated current
series	Output from 0 to rated voltage at each rated current
	Output from 0 to 2x rated voltage at rated current
parallel	Output from 0 to 2x rated current at rated voltage
Tracking	
Tracking error	<0.5% +10mV of the master
Series regulation	<300mV
Constant voltage	
Line regulation	<0.01% + 3mV
Load regulation	<0.02% + 5mV
Ripple & noise	1mVrms
Output range	0 to voltage continuously adjustable
Constant current	
Line regulation	<0.2% + 3mA
Load regulation	<0.2% + 3mA
Ripple current	<3mArms
Output current	0 to rated current continuously adjustable
5V fixed output	
Line regulation	<5mV
Load regulation	<10mV
Ripple & noise	<2mVrms
Voltage accuracy	5V±
Output current	3A
Dimensions	255 x 145 x 246mm
Weight	11.5kg

Type	Order code	1+
Dual 18V/5A PSU	**85-1818**	252.20

062152

Aim TTi

Compact Bench Linear PSUs

The **EL series** of linear PSUs have been designed to meet the need for a compact power supply that provides good performance at a low price.

- Single, dual and triple output models
- Power from 30W to 125W
- Voltage from 15V to 60V
- Compact design takes up minimal bench space
- Linear regulation
- Quiet operation
- Excellent line and load regulation
- Low Noise
- Good transient response
- Constant voltage and constant current modes with automatic crossover
- Coarse and fine voltage control
- Logarithmic current control enabling low currents to be accurately set
- Seperate digital voltmeter and ammeter for each main output
- Current limit settings are displayed when output switch is off, enabling verification of settings
- Bright LED display with 14mm high characters and an update rate of four per second
- All outputs short circuit proof and protected against external voltages and reverse currents
- **EL302P** model features an RS-232 interface to give a basic programmable PSU
- Complies with **EN61010-1** and **EN61326**
- **Thurlby Thandar EL series**

Technical specification

Mftrs. pt. no.	Output voltage	Output current	Max. power	Features	Order code
EL155	0-15V	5A	75W		**85-2196**
EL183	0-18V	3.3A	60W		**85-2192**
EL301	0-30V	1A	30W		**85-2191**
EL302	0-30V	2A	60W		**85-2193**
EL302P	0-30V	2A	60W	Programmable via RS-232	**85-2194**
EL303	0-30V	3A	90W		**85-2197**
EL561	0-56V	1.1A	60W		**85-2195**
EL302D or	2x 0-30V 1x 0-60V	2x 2A 1x 4A	120W	Dual output	**85-2198**
EL302TV and	2x 0-30V 1x 3.3/5V	2x 2A 1x 1A	125W	Triple output	**85-2199**

	Input VA	L (mm)	W (mm)	H (mm)	Weight (kg)
EL155	250	295	140	160	5
EL183	160	295	140	160	4.4
EL301	85	295	140	160	3.4
EL302	160	295	140	160	4.4
EL302P	160	295	140	160	4.4
EL303	250	295	140	160	5
EL561	160	295	140	160	4.4
EL302D	320	295	260	160	7.5
EL302T	320	295	260	160	7.5

AC Input	115V or 230V AC 50/60Hz
Cooling	Silent fan less convection cooling
Output terminals	4mm binding post terminals
Operating temperature	+5°C to +40°C @20 to 80% RH
Storage temperature	-40°C to +70°C

Voltage	Current	Order code	1+
Single output			
15V	5A	**85-2196**	189.35
18V	3.3A	**85-2192**	161.26
30V	1A	**85-2191**	143.58
30V	2A	**85-2193**	166.46
30V (with RS-232)	2A	**85-2194**	239.29
30V	3A	**85-2197**	197.68
56V	1.1A	**85-2195**	160.22

074714

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High Power Compact Bench Switch Mode PSUs

The **EX series** of switch mode PSUs provide high levels of power at a very affordable price. By combining switch-mode pre-regulation with linear post-regulation, performance levels comparable to an all linear design have been achieved.

- Single, dual and triple output models
- Power from 175W to 420W
- Voltage from 18V to150V
- Compact design takes up minimal bench space
- Quiet operation
- Mixed-mode regulation
- Excellent line and load regulation
- Low Noise
- Good transient response
- High power efficiency
- Constant voltage and constant current modes with automatic crossover
- Coarse and fine voltage control
- Logarithmic current control enabling low currents to be accurately set
- Separate digital voltmeter and ammeter for each main output
- Current limit settings are displayed when output switch is off, enabling verification of settings
- Bright LED display with 14mm high characters and an update rate of four per second
- All outputs short circuit proof and fully protected against external voltages and reverse currents
- **EX-R** models feature remote sensing
- **EX355P** model features an RS-232 interface to give a basic programmable PSU
- Complies with **EN61010-1** and **EN61326**
- **Thurlby Thandar EX series**

Technical specification

Output parameters		
Period range		100ns to 10s (10MHz to 0.1Hz)
Period jitter		<0.1%
Pulse width range		50ns to 5s
Pulse width jitter		<0.1%
Delay range		50ns to 5s
Operation modes	Run	Continuous generation 0.1Hz to 10MHz
	Triggered	DC to 10MHz triggered pulse train
	Gated	0.1Hz to 10MHz set pulse train
Pulse modes	Normal	1 pulse/period
	Squarewave	0.1Hz to 10MHz with mark/space ratio 1:1
	Double pulse	2nd pulse generated according to delay control
	Delayed pulse	Pulse generated according to delay control
Outputs		
50Ω output	Amplitude	0.1–1V or 1–10V switchable
	Rise/fall time	10ns typ.
Aux output		50Ω output at TTL/CMOS level
Sync output	Amplitude	Positive going pulse at TTL/CMOS level
	Timing	Leading edge starts >20ns before output transition
	Duration	30ns typ.
Complement switch		Inverts AUX and 50Ω outputs
Inputs		
Gate/trig input	Frequency range	DC - 10MHz
	Signal range	TTl threshold: max. input ±10V
	Min. pulse width	>30ns
	Input impedance	10kΩ typ.
General		
AC Input		115 or 230V AC 50/60Hz
Dimensions		230(L) x 220(W) x 140(H) mm
Weight		1.6kg
Operating temperature		+5°C to +40°C @20-80% RH
Storage temperature		-40°C to +70°C

Voltage	Order code	1+
Single output		
18V	**85-2020**	291.31
20V	**85-2021**	397.43
35V (with RS-232)	**85-2019**	338.13
42V	**85-2022**	426.56
Dual output		
2x 35V	**85-2023**	296.51
2x 75V	**85-2024**	468.18
Triple output		
3x 35V	**85-2025**	425.52

074713

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on all orders over £30 (excl. VAT)
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* See Terms & Conditions for full details

Multi Channel DC PSUs

These DC PSUs are available with three or four independent isolated outputs.

- Constant voltage and constant current modes
- Tracking operation and auto series/parallel operation
- 0.01% load and line regulation
- Low ripple and noise
- Output ON/OFF switch
- Four 0.5in three-digit LED displays
- Output voltage and current setting when output disabled
- Fan speed control circuit minimises fan noise
- Overload and reverse polarity protection
- Supplied with Instruction manual, power lead and test leads
- **GW Instek GPS series**

Technical specification

Mftrs. pt. no.		GPS-3303S	GPS-4303S
Order code		85-1825	85-1826
Output mode			
Voltage	Channel 1	0-30V	0-30V
	Channel 2	0-30V	0-30V
	Channel 3	5V	2.2-5.2V
	Channel 4	-	8-15V
Current	Channel 1	3A	3A
	Channel 2	3A	3A
	Channel 3	3A	1A
	Channel 4	-	1A
Max. power		195W	200W
Tracking series voltage	0-60V	0-60V	
Tracking parallel current	0-6A	0-6A	
AC Input		100/120/220/230V AC 50/60Hz	

Type	Order code	1+
3-channel PSU	**85-1825**	216.79
4-channel PSU	**85-1826**	232.62

074715

15V DC High Current DC Regulated SMPS

A power supply that provides high current outputs from a lightweight and compact case size. In addition to a 3 to 15V output there is also a fixed output of 13.8V making the unit ideal for the demonstration, testing and maintenance of in-car entertainment equipment.

- Output voltage adjustable from 3 to 15V DC
- Additional fixed voltage output of 13.8V
- Excellent power factor correction reduces power loss and cuts noise and EMI
- Overload, short circuit and overtemperature protection
- High RFI stability
- Seperate VU type voltmeter and ammeter
- Cooled by low noise variable speed thermally controlled fan
- **CE, EN-55022, EN 60950** approval

Technical specification

Input voltage		230V AC 50Hz
Output voltage	Variable	3 to 15V DC
	Fixed	13.8V DC
Output current		25A
Ripple and noise		5mV p-p
Load regulation		200mV
Line regulation		50mV
Efficiency		>78%
Power factor correction		>0.95
Meter accuracy		7% fsd
Operating temperature		0°C to +40°C
Dimensions W x H x D (mm)		220 x 110 x 220
Weight (kg)		2.7

Type	Order code	1+
15V 25A SMPS	**85-1833**	49.98

075296

SMPS 25A/40A

A range of high power switch mode power supplies housed in a lightweight and compact enclosure with digital LED displays for voltage and current readings. Output is adjustable from 3V to 15V with the ability to fix the output at 13.8V via a slide switch on base of unit. Models are available with either 25A or 40A outputs.

- The PSUs are fully protected with overload, over temperature, over voltage (set at 16.5V) and short circuit protection as standard
- A thermally controlled, variable speed fan ensures quiet and cool operation
- **CE** approved to **EN60950, EN55022, EN61588** (25A version) and **EN5011** (40A version)

Technical specification

	25A	40A
Variable output voltage	3V to 15V DC	3V to 15V DC
Fixed voltage mode	13.5V DC	13.5V DC
Ripple and noise	50mV	50mV
Load regulation	200mV	200mV
Line regulation	50mV	50mV
Efficiency	>78%	>78%
Power factor correction	>0.95 at optimal load	>0.95 at optimal load
V meter range	3x LED	3x LED
A meter range	3x LED	3x LED
Dimensions	220 x 110 x 220mm	220 x 110 x 300mm
Weight	2.7kg	3.5kg

Type	Order code	1+
25A SMPS Digital display	**85-1824**	91.01
40A SMPS Digital display	**85-1828**	94.88

065063

Rapid

Switch Mode Power Supply 30V/30A

This high power (900W) switch-mode DC regulated power supply features a 1-30V variable output, and is designed with a highly efficient active power factor corrector. The constant current limiting protecton allows the output current to remain stable, but the output voltage decreases to a safe operating level. Remote sensing is included to compensate for output line losses, plus the output voltage level can be externally controlled via a remote terminal.

- Includes front terminal with 3A limiting
- Main o/p, remote sensing, remote control terminals are mounted on the back of unit
- Adjustable o/p 1-30V DC
- Lightweight and small footprint - 220 x 110 x 360mm, 5.8kg
- Overload, over-temperature, short circuit protection
- Constant current mode with LED indicator
- Variable speed thermally controlled fan
- Large LED readouts

For a suitable in-line locking DIN socket see Rapid part **50-3220**

Technical specification

Variable output voltage	1V to 30V DC
Total rated output current	30A (front + back terminals)
Front output max	3A
Load regulation	0.1% +5mV
Line regulation	0.05% +3mV
Ripple and noise	40mV pk-pk
Efficiency	>85%
Power factor correction	>0.97
LED readouts	3-digit display for voltage and current
Meter accuracy	1% + 1 count

Type	Order code	1+
30V/30A PSU	**85-1832**	161.83

068072

Plug-in Power Supplies

PowerPax UK

DC Connector Polarity Changer

These adapters have been designed and manufactured by **PowerPax** to solve an ongoing problem. You have the correct voltage/current AC adapter, but it's the wrong polarity. These 2 adapters will solve that problem.

The first adapter is a 2.1 x 5.5 x 12mm **polarity changer**. The centre positive jack to centre negative plug (black colour (Part number C4535 (order code **85-3083**)).

The other adapter is a 2.5 x 5.5 x 12mm polarity changer with a centre positive jack to centre negative plug (grey colour (Part number C4536 (order code **85-3084**)).

- Centre positive jack to centre negative plug
- Available with **2.1mm** (black) or **2.5mm** (grey) **jack sleeve**

Type	Order code	1+
Black Connector	**85-3083**	1.94
Grey Connector	**85-3084**	1.94

538677

PowerPax UK

Mini Plugtop Switch Mode Power Supply

A range of miniature power supplies that offer switch mode performance and are available in several outputs (see price panel for details).

- Wide input voltage range
- Output connector 2.1 x 12mm plug
- Short circuit, overvoltage and overcurrent protection
- Long MTBF of 50,000 hours at 25°C, full load
- Fitted with 140cm cable
- EMI standard **CE Class B, Conduction and Radiation**
- Safety standards **BSMI, CB, CE, GS**

Technical specification

Input voltage range	90 to 264V AC 47 to 63Hz
Efficiency	63% min.
Load regulation	±5%
Leakage current	<0.25mA
Operating temperature	0°C to +40°C @ 20 to 80% RH
Storage temperature	-20°C to +60°C @ 10 to 90% RH
Dimensions	52(L) x 29(W) x 89(H)mm
Weight	108g

Output voltage	Output current	Power	Order code
3.3V DC	1.5A	4.95W	85-2954
5.0V DC	1.5A	7.50W	85-2955
7.5V DC	1.0A	7.50W	85-2956
9.0V DC	0.6A	5.40W	85-2957
12V DC	1.0A	1.20W	85-3070
12V DC	0.5A	6.00W	85-3071
15V DC	0.5A	7.50W	85-2959

Voltage	Current	Order code	1+	10+	25+	100+
3.3V	1.5A	**85-2954**	7.91	6.44	5.72	5.26
5.0V	1.5A	**85-2955**	7.91	6.44	5.72	5.26
7.5V	1.0A	**85-2956**	7.91	6.44	5.72	5.26
9.0V	0.6A	**85-2957**	7.91	6.44	5.72	5.26
12V	0.5A	**85-3071**	4.91	4.36	3.81	3.25
12V	1.0A	**85-3070**	5.47	4.91	4.36	3.81
15V	0.5A	**85-2959**	7.91	6.44	5.72	5.26

080857

PowerPax UK

Mini Regulated Voltage Adjustable PSU

An AC/DC Switching adaptor.

- Input: 100 to 240V
- Current: 1000mA (max)
- Supplied complete with 6 detachable plugs including
- A (2.5mm) , B (3.5mm) , E (5.5x2.1mm) , G (5.5x2.5mm) , H (3.5x1.35mm) and N (5.5x1.5mm)
- Dimensions of casing: 76.5x43x33mm

Technical specification

Input	
Input voltage	100 to 240V AC
Input frequency	50 to 60Hz
No load power consumption	0.3W
Input full load current	0.25A
Input power	16.5W max
Output	
Light load output voltage	3.0/4.5/5.0/6.0/7.5/9.0/12.0V DC ±10%
Full load output voltage	3.0/4.5/5.0/6.0/7.5/9.0/12.0V DC ±10%
Min load output current	0A
Max load output current	1.0A
Noise test bandwidth	20MHz.Each output bypassed by a 10uF
Line regulation	0.5% Input 90 to 264V AC output loaded at full load
Setup, rise, hold uptime	200ms,30ms,17ms/115V AC; 200ms,20ms,80ms/230VAC
Overall performance	
Total output power	12W
Efficiency	Complied with EUP
Hi-pot	
Input to output	3000V AC 5mA 50/60Hz
Input to case	3000V AC 5mA 50/60Hz
Output to case	1500V AC 5mA 50/60Hz
Isolation resistance	100MΩ
Environmental	
Operating temperature	0°C to +25°C
Storage temperature	-20°C to +50°C
Operating humidity	20%-85% RH. Non-condensing
Storage humidity	10%-90% RH Non-condensing
Mechanical specification	
Dimension	76.5(L)x 42.4(W)x 72.2(H)mm
Weight	140g

Type	Order code	1+	10+	25+	100+
Mini regulated PSU	**85-1683**	9.38	8.28	7.18	6.34

401000

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PowerPax UK

15W Mini Plugtop Switch Mode PSU

A range of high quality plugtop PSUs that offer an output through the moulded female barrel connector.

- 15 Watt continuous
- Input voltage of 100-240V AC
- 5V, 6V, 9V, 12V, 15V and 24V DC versions available
- 2.1 x 5.5 x 12mm female barrel
- +ve centre polarity
- Short circuit and over voltage protection
- **CE** marked and safety approved

Technical specification

Dimensions (h x d x w) (mm)			64 x 50 x 49.2 including pins (UK)
Input voltage			100V to 240V; 50-60Hz; 0.4A
Output barrel (mm)			2.1 x 5.5 x 12
Output	85-2900	5V DC	2.5A max.
	85-2906	6V DC	3.0A max.
	85-2901	9V DC	1.6A max.
	85-2902	12V DC	1.25A max.
	85-2903	15V DC	1.0A max.
	85-2904	24V DC	0.65A max.
Voltage protection			Short circuit and over voltage protection
Weight			116g approx.
Approved			CE marked and approved

Voltage	Current	Order code	1+	10+	25+	100+
5V DC	2.5A	**85-2900**	8.76	7.22	6.43	6.05
6V DC	3.0A	**85-2906**	10.48	8.43	7.73	6.97
9V DC	1.6A	**85-2901**	8.76	7.22	6.43	6.05
12V DC	1.25A	**85-2902**	8.76	7.22	6.43	6.05
15V DC	1.0A	**85-2903**	8.76	7.22	6.43	6.05
24V DC	0.65A	**85-2904**	8.76	7.22	6.43	6.05

071059

STONTRONICS

15W Mini Plugtop PSU

A range of high quality plugtop PSUs that offer outputs via a pack of seven common connectors (including 2.1mm and 2.5mm types).

- Input voltage of 100V AC to 240V AC
- Short circuit, over voltage and over current protection
- Efficiency of 75% at full load (see datasheet for specifics)
- Dimensions 53 x 80 x 41mm
- **CE** approved

Voltage	Current	Order code	1+	10+	25+
5V DC	2.6A	**85-3900**	13.53	10.40	8.84
9V DC	1.5A	**85-3901**	13.53	10.40	8.84
12V DC	1.25A	**85-3902**	13.53	10.40	8.84
15V DC	1A	**85-3903**	13.53	10.40	8.84
24V DC	0.75A	**85-3904**	13.53	10.40	8.84

074992

IDEAL POWER

31W Interchangeable Plugtop/Desktop Switch Mode Power Supply

An innovative range of 31W regulated output switch mode power supplies that feature the unique ability to change from being a plugtop unit to a desktop unit. A series of supplied connector plates (UK, US, Euro and Australian types) enables the unit to be used as a plugtop unit or, use the blank plate and the IEC inlet to utilise the unit as a desktop power supply. The output side of the power supply is fitted with a 1.8m cable and supplied with eight of the most common DC connectors. This unit is ideal for many applications including use in OEM products.

- For use as a desktop or plugtop unit
- Supplied with eight of the most common DC output connectors
- Regulated output
- Overvoltage protection
- Approved to international standards and **CE** marking
- **PSE** and **SAA** approved for Japan and Australia

Technical specification

Input voltage	90V to 264V AC 50/60Hz
Output	5V DC 4A (Order code 85-3120)
	9V DC 2.66A (Order code 85-3121)
	12V DC 2.5A (Order code 85-3122)
	15V DC 2A (Order code 85-3123)
	24V DC 1.25A (Order code 85-3124)
Ripple max.	1%
Dimensions (excl. plug)	101 x 52 x 36mm (5V model)
	89 x 56 x 41mm (12V, 15V and 24V models)
Output connectors	1.3 x 3.4 x 11mm right angled
	2.1 x 5.5 x 12mm right angled
	2.5 x 5.5 x 12mm right angled
	1.7 x 4 x 9.5mm right angled
	2.1 x 5.5 x 12mm straight
	1.7 x 4.7 x 9.5mm straight
	0.7 x 2.35 x 9.5mm straight
	3 x 6.3 x 12mm straight

Type	Rating	Order code	1+	10+	25+	100+
31W SMPS	5V 4A	**85-3120**	13.81	12.05	11.12	10.30
31W SMPS	9V 2.5A	**85-3121**	13.81	12.05	11.12	10.30
31W SMPS	12V 2.5A	**85-3122**	13.81	12.05	11.12	10.30
31W SMPS	15V 2A	**85-3123**	13.81	12.05	11.12	10.30
31W SMPS	24V 1.25A	**85-3124**	13.81	12.05	11.12	10.30

081329

STONTRONICS

AC/DC and AC/AC Unregulated Plugtop PSUs

A range of high quality AC/DC and AC/AC plugtop PSUs each offering a dedicated single output.

- Input voltage 230V AC
- Internal thermal fuse
- C+ Connector, 2.1 x 5.5 x 12mm female barrel
- **CE** approved

Voltage	Current	Order code	1+	10+	25+
AC/DC					
9V DC	300mA	**85-3910**	8.05	6.83	6.55
9V DC	600mA	**85-3911**	8.05	6.83	6.55
12V DC	500mA	**85-3914**	5.36	4.31	4.16
AC/AC					
24V AC	500mA	**85-3924**	6.78	6.38	6.22

074993

PowerPax UK

36W Voltage Adjustable Multi-Output Plugtop PSU

This innovative plugtop switch mode power supply will supply any one of twenty fully regulated voltages by means of a resistor that pushes into the side of the unit.

- Output voltage cannot be changed by mistake
- Output voltage between 5V DC and 24V DC in 1V increments
- Supplied with UK, European, USA and Australian push-on input pins
- Standard output connector pack includes six connector types
- **CB, CE, GS** approved

Technical specification

Input voltage	100 to 240V AC 50/60Hz		
Output voltage	Output current	Output voltage	Output current
5V	3.8A	15V	2.4A
6V	3.7A	16V	2.2A
7V	3.6A	17V	2.1A
8V	3.5A	18V	2.0A
9V	3.4A	19V	1.88A
10V	3.3A	20V	1.8A
11V	3.2A	21V	1.7A
12V	3.0A	22V	1.63A
13V	2.7A	23V	1.56A
14V	2.5A	24V	1.5A
Output connectors			
Type A	2.5mm male	Type B	3.5mm male
Type D	2.1 x 5.5 x 12mm female	Type G	2.5 x 5.5 x 12mm female
Type H	1.3 x 3.5 x 10mm female	Type N	1.5 x 5.5 x 12mm female

Type	Order code	1+	10+	25+
36W Plugtop PSU	**85-2908**	22.68	18.41	17.17

076992

PowerPax UK

5V DC 1A USB UK Pins Black Case

Ideal for Raspberry Pi

This 5V DC 1A USB power supply comes complete with a set of AC interchangeable AC pins and has a 90-264V AC input for world use. It carries full international safety approvals and meet the latest ErP stage 2 requirements with high reliability (M.T.B.F of 50K hours at 25 degrees C.) The SW4492-V2 power supply can be used to charge a wide range of products. This PSU is supplied in black.

- Part Number: SW4492-V2
- Output: 5V DC 1A
- Power (Watts): 5W
- DC Plug: USB socket
- Rated Input Voltage: 100 to 240V AC
- Supplied in **black**

Technical specification

Mftrs. Part	Voltage	Amps	Watts	Order code
SW4492-V	5V DC	1A	5W	85-2893

Type	Order code	1+	10+	25+
5V DC 1A USB PSU	**85-2893**	3.32	3.01	2.91

526289

PowerPax UK

5V DC 1A USB UK Pins White Case

This 5V DC 1A USB power supply comes complete with a set of AC interchangeable AC pins and has a 90-264V AC input for world use. It carries full international safety approvals and meet the latest ErP stage 2 requirements with high reliability (M.T.B.F of 50K hours at 25 degrees C.) The SW4492-W-V2 power supply can be used to charge a wide range of products. This PSU is supplied in white.

- Part Number: SW4492-W-V2
- Output: 5V DC 1A
- Power (Watts): 5W
- DC Plug: USB socket
- Rated Input Voltage: 100 to 240V AC
- Supplied in **white**

Technical specification

Mftrs. Part	Voltage	Amps	Watts	Order code
SW4492-V	5VDC	1A	5W	85-2894

Type	Order code	1+	10+	25+
5V DC 1A USB PSU	**85-2894**	3.62	3.32	3.21

526290

PowerPax UK

5V DC 2.1A USB with UK Pins

This 5V DC 2.1A USB power supply comes complete with a set of AC interchangeable AC pins and has a 90-264V AC input for world use. It carries full international safety approvals and meet the latest ErP stage 2 requirements with high reliability (M.T.B.F of 50K hours at 25 degrees C.) The SW4479 power supply can be used to charge a wide range of products.

- Part Number: SW4479
- Output: 5V DC 2.1A
- Power (Watts): 10.5W
- DC Plug: USB socket
- Rated Input Voltage: 100 to 240V AC

Technical specification

Mftrs. Part	Voltage	Amps	Watts	Order code
SW4479	5V DC	2.1A	10.5W	85-2892

Type	Order code	1+	10+	25+
V DC 2.1A USB PSU	**85-2892**	5.56	5.05	4.90

526288

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PowerPax UK

5V DC 1A UK with Micro USB Output Lead

This 5V DC 1A USB power supply comes complete with a Micro USB output lead and a set of AC interchangeable AC pins. The PSU has a 90-264V AC input for world use. It carries full international safety approvals and meet the latest ErP stage 2 requirements with high reliability (M.T.B.F of 50K hours at 25 degrees C.) The SW4149-B power supply can be used to charge a wide range of products.

- Part Number: SW4450-B
- Output: 5V DC
- Current Min.: 0.01A
- Power (Watts): 5W
- USB ouput lead
- Rated Input Voltage: 100 to 240V AC

Technical specification

Mftrs. Part	Voltage	Amps	Watts	Order code
SW4450B	5V DC	1000mA	5W	85-2890

Type	Order code	1+	10+	25+
5V DC 1A USB PSU	**85-2890**	3.52	3.21	3.11

526286

STONTRONICS

5W Switch Mode Plugtop PSU

A range of regulated switch mode plugtop power supplies that are lightweight and small in size yet offer good performance.

- Can be operated by voltages from 90V AC to 264V AC
- Good output tolerance
- Provides protection from short circuits
- 1.8m Output lead
- Fitted with a standard 2.1mm centre positive connector
- **CE** approved for safety and noise

Technical specification

Input voltage	90V to 264V AC
Frequency	47Hz to 63Hz
Line regulation	5%
Load regulation	5%
Efficiency	60% min.
Operating temperature	0°C to +40°C
Weight	85g

Type	Rating	Order code	1+	10+	25+
5W PSU	5V 1A	**85-2928**	6.76	6.24	5.72
5W PSU	9V 550mA	**85-2926**	6.40	5.45	4.31
5W PSU	12V 400mA	**85-2927**	6.76	6.24	5.72
5W PSU	5V 1A	**85-3730**	6.24	5.41	4.16
5W PSU	9V 0.55mA	**85-3731**	8.05	6.90	6.09
5W PSU	12V 0.42mA	**85-3732**	8.05	6.90	6.09

074406

STONTRONICS

UK Plugtop SMPSU

A range of high quality low cost range of UK plugs.

- Universal AC input
- Fixed output voltage
- 2.1mm C +VE DC connector
- RoHS Compliant
- High reliability
- Efficiency level IV
- **CE**, **UL** and **TUV** approved

Technical specification

Voltage	Current	Part No.	Order code
UK Wall plug			
5VDC	2.5A	T4424ST	85-3735
9VDC	1.67A	T4425ST	85-3736
12VDC	1.25A	T4180ST	85-3737
12VDC	2A	T4317ST	85-3742
15VDC	1.2A	T4426ST	85-3739
18VDC	1.0A	T4427ST	85-3740
24VDC	0.83A	T4428ST	85-3741
Euro Wall Plug			
12VDC	1.25A	T4344ST	85-3738

Type	Order code	1+	10+	25+
5V, 15W UK	**85-3735**	7.25	6.38	5.52
9V, 15W, UK	**85-3736**	7.25	6.38	5.52
12V, 15W, UK	**85-3737**	5.62	5.36	5.20
12V, 15W EU	**85-3738**	5.62	5.36	5.20
12V, 24W,2A, UK	**85-3742**	7.34	6.38	5.61
15V, 15W, UK	**85-3739**	6.04	5.52	5.36
18V, 15W, UK	**85-3740**	7.25	6.38	5.52
24V, 15W, UK	**85-3741**	7.25	6.38	5.52

123393

Desktop Power Supply Units

PowerPax UK

60W to 65W Desktop Switch Mode Power Supply (3-pin IEC input)

A range of high quality, ultra compact 65W desktop switch mode power supplies with full international safety approvals including **CB, UL, cUL, BSMI, PSE, GS, RCM, CE** and **LPS**. These switch mode power supplies meet Energy Efficiency Level IV and CEC requirements and have a wide range 90-264V AC 47/63Hz input for world use. They also come with short circuit, over voltage and over load current protection as standard.

- Input 90V to 264V AC 47/63Hz
- Output 12V DC to 24V DC
- Dimensions: 115 x 53 x 38mm
- Efficiency 85% min (meets Energy Efficiency Level IV and CEC)

Technical specification

Output power	Input	Output	Output	Order code
60W	90 to 264V AC	12V DC	5.0A	85-3080
65W	90 to 264V AC	24V DC	2.7A	85-3081
40 to 65W	100 to 240V AC	12V DC	3.3A	85-3082

Type	Order code	1+	10+	25+	100+
12V DC 5A PSU	**85-3080**	16.00	14.91	13.80	12.15
24V DC 2.7A Desktop PSU	**85-3081**	16.00	14.91	13.80	12.15
12V DC 3.3A PSU	**85-3082**	16.00	14.91	13.80	12.15

400397

PowerPax UK

Switch Mode PSU 12W-25W

This range of desktop switch mode PSUs made to high standard offer a regulated single fixed output voltage. The input voltage is via a **IEC320-C8** inlet, (cable not supplied) order code **23-7497**.

- Input of 100-240V; AC 50-60Hz; 1.5A
- 25W max.
- 5V, 9V, 12V, 15V and 24V DC versions available
- 2.1 x 5.5 x 12mm female barrel
- +ve centre polarity
- Low ripple and noise
- EMI: Meets **FCC class B**
- Short circuit and over voltage protection
- 7 versions available
- The input voltage is via a **IEC320-C8** inlet, (cable not supplied) order code **23-7497**.
- **CE, UL, cUL, TUV, CB** and **BSMI** approved

Technical specification

		Current	Order code
Output	5V DC	2.5A	85-2940
	9V DC	1.6A	85-2941
	12V DC	1.25A	85-2943
	12V DC	2A	85-2944
	15V DC	1A	85-2945
	24V DC	0.65A	85-2946
Dimensions	68.2 (H) x 49.8 (W) x 26.3mm (D)		
Input voltage	240V; 50Hz		
Cable inlet	IEC320-C8 (2P)		
Output barrel	2.1 x 5.5 x 12mm		
Voltage protection		Short circuit and over voltage	
Operating temperature		0°C to +40°C	
Storage temperature		-40°C to +85°C	
Weight		109g approx.	
Approved		CE, UL, cUL, TUV, CB and BSMI approved	

Type	Order code	1+	10+	25+	100+
5V DC 2.5A	**85-2940**	9.66	7.73	7.08	6.44
9V DC 1.5A	**85-2941**	9.66	7.73	7.08	6.44
12V DC 1.2A	**85-2943**	9.66	7.73	7.08	6.44
12V DC 2A	**85-2944**	14.93	11.93	10.93	9.95
15V DC 1A	**85-2945**	10.48	8.54	7.96	7.25
24V DC 0.55A	**85-2946**	9.66	7.73	7.08	6.44

071064

STONTRONICS

12-25W Mini Desktop Switch Mode PSU

A range of high quality switch mode PSUs that have 2-pin IEC input connectors.

- Wide range input voltage 90 to 255V AC at 47 to 63Hz
- Short circuit, over voltage and over current protection
- Minimum 60% efficiency
- Fully regulated output
- Connector, 2.1 x 5.5 x 12mm female barrel
- Dimensions 75 x 47.5 x 26.5mm
- **IEC, TUV, UL** approved

Voltage	Current	Order code	1+	10+	25+
5V DC	2A	**85-3940**	7.38	7.08	6.76
9V DC	1.5A	**85-3941**	10.31	8.40	8.05
24V DC	0.55A	**85-3946**	12.46	10.20	9.73

074995

STONTRONICS

12W Switch Mode Power Supply

A very compact destop 12W SMPS.

- Output 12V 1A
- Compact case measures just 74 x 46 x 25.5mm
- Output via fixed 1.8m lead with standard 2.1mm plug

Requires a 'figure-of-8' mains lead and plug see **Connectors - mains power** *section.*

Type	Rating	Order code	1+	5+	10+
12W SMPS	12V 1A	**85-1864**	11.44	9.36	7.28

077532

PowerPax UK

25W-50W DC Miniature Desktop Switch Mode PSU

These high quality desktop PSUs each offer a regulated fixed single output voltage via a **IEC320-C8** inlet (cable not supplied) order code **23-7497**.

- 2.1 x 5.5 x 12mm female barrel
- **Please note**: A 2.5 x 5.5 x 12mm output connector is fitted to the 12vdc 2.5 amp part (Order code **85-3073**)
- Input voltage of 100V to 240V; AC 50Hz to 60Hz; 1.1A
- No minimum load
- 25W max.
- 5V, 12V, 15V and 24V DC versions available
- +ve centre polarity
- Short circuit and over voltage protection
- Meets radiated and conducted emission requirements of **CISPR22 Class B** and **FCC Class B**
- **CE, UL, cUL, TUV, CB** and **BSMI** approved

Technical specification

		Current	Dimensions	Order code
Output	5V DC	5A	90(L) x 55(W) x 35(D)mm	85-2950
	12V DC	3.8A	95(L) x 43(W) x 28(D)mm	85-2951
	15V DC	3A	95(L) x 43(W) x 28(D)mm	85-2952
	24V DC	2.5A	120(L) x 58(W) x 37(D)mm	85-2953
Voltage protection	Short circuit and over charge			
Input voltage	100V to 240V; 50Hz to 60Hz			
Cable inlet	IEC320-C8 (2P)			
Output barrel	2.1 x 5.5 x 12mm			
Operating temperature	0°C to +40°C			
Storage temperature	-40°C to +85°C			
Weight	193g approx.			
Approved	CE, UL, cUL, TUV, CB and BSMI approved			

Type	Order code	1+	10+	25+	100+
5V DC 5A	**85-2950**	14.19	12.61	11.04	9.46
12V DC 3.5A	**85-2951**	18.67	14.93	13.59	12.64
15V DC 2.6A	**85-2952**	18.67	14.93	13.59	12.64
24V DC 2.5A	**85-2953**	18.67	14.93	13.59	12.64
24V DC 1.25A PSU	**85-3072**	12.69	11.05	9.93	8.83
12V DC 2.5A PSU	**85-3073**	11.54	9.93	8.83	7.73

071065

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PowerPax UK

60W to 65W Desktop Switch Mode Power Supply (2-pin Output)

These high quality desktop switch mode PSUs are fitted with an **IEC320-C8** inlet, a figure of eight type socket (cable not supplied) order code **23-7497**.

- Input voltage of 100-240V; AC 50-60Hz; 1.5A
- 65W max
- 5V, 12V, 15V and 24V DC versions available
- 2.1 x 5.5 x 12mm female barrel
- +ve centre polarity
- Short circuit, over voltage and over current protection
- 4 versions available
- Meet **FCC Class B** and **CISPR22 Class B**
- **CE, UL, cUL, TUV, CB** and **BSMI** approved

Technical specification

		Current	Order code
Output	12V DC	5A	85-2931
	15V DC	4.2A	85-2932
	24V DC	2.5A	85-2953
Dimensions	115 (L) x 53 (W) x 37mm (D)		
Input voltage	100V to 240V; 50Hz to 60Hz; 1.5A		
Cable inlet	IEC320-C8 (2P)		
Output barrel	2.1 x 5.5 x 12mm		
Voltage protection	Short circuit, over voltage and over current protection		
Operating temperature	0°C to 40°C		
Storage temperature	-40°C to +85°C		
No load standby power	0.25-0.75W max		
Weight	261g approx		
Approved	CE, UL, cUL, TUV, CB and BSMI approved		

Type	Order code	1+	10+	25+	100+
12V DC 5A	**85-2931**	20.78	16.39	14.93	13.45
15V DC 4.2A	**85-2932**	21.95	17.56	16.09	14.63
18V DC 3.6A desktop PSU	**85-3074**	18.21	16.56	14.91	13.25
24V DC 2.5A	**85-2953**	18.67	14.93	13.59	12.64

071063

PowerPax UK

90W Desktop Switch Mode PSU

High quality desktop switch mode PSUs that feature an IEC320 C6 'cloverleaf' inlet and a captive lead with a 2.1 x 5.5 x 12mm female, centre positive DC connector. These PSUs are suitable for a range of applications including LCD monitors, notebooks, printers and portable devices.

- Wide input voltage range 90V to 264V
- Maximum power 90W
- Available in 12V and 24V versions
- LED indication
- Short circuit, over voltage and over current protection
- No load power consumption 0.5W
- Requires a C5 socket to 13A plug cord 2m lead (order code **23-6500**) not supplied
- EMI specification meets **CE/FCC Class B**
- Safety specifications **BSMI, CB, GS, PSE, UL, cUL**

Please note that a C5 socket to 13A plug cord 2m lead is required for this product (order **code 23-6500***) For suitable mains lead see* **Connectors – mains/power** *section*

Technical specification

Input voltage	90V to 264V 47Hz to 63Hz	
Output	85-2981	+12V 7A 84W
	85-2982	+24V 3.75A 90W
Efficiency	80% typ.	
Load regulation	±5%	
Leakage current	<3.5mA	
MTBF	50,000 hours min. @ +25°C full load	
Operating temperature	0°C to +40°C @20 to 80% RH	
Storage temperature	-20°C to +60°C 10 to 90% RH	
Dimensions	138 x 61 x 36mm	
Weight	415g	

Type	Voltage	Order code	1+	10+	25+
90W PSU	12V DC	**85-2981**	31.60	28.09	25.76
90W PSU	24V DC	**85-2982**	31.60	28.09	25.76

079713

PowerPax UK

120W Desktop Switch Mode PSU

High quality desktop switch mode PSUs that feature a standard IEC320 C14 inlet and a 1.2m captive lead with a 2.1 x 5.5 x 12mm female, centre positive DC connector. These PSUs are suitable for a range of applications including LCD monitors, notebooks, printers and other peripheral and portable devices.

- Wide input voltage range 90V to 264V
- Maximum power 120W
- Available in 12V and 24V versions
- AC active PFC input design
- Low cost and low weight
- High efficiency and high MTBF
- Compact size and low profile
- No inrush current damage at cold start
- Short circuit, over voltage and over current protection
- Safety specifications **BSMI, CB, CCC, CE, EK, PSE, TUV, cUL**

Technical specification

Input voltage	90V to 264V 50Hz to 60Hz	
Output	85-2983	+12V 10A 120W
	85-2984	+24V 5A 120W
Operating temperature	+10°C to +40°C	
Dimensions	150 x 65 x 38mm	
Weight	514g	

Type	Voltage	Order code	1+	10+
120W PSU	12V DC	**85-2983**	45.63	40.96
120W PSU	24V DC	**85-2984**	42.03	36.78

079714

DC/DC & DC/AC Converters

PowerPax UK

10W and 15W Ultra Compact PCB Mounting Power Supplies

The 10W and 15W series of AC/DC modules offer a fully isolated, high efficiency PCB mounting power supplies suitable for many applications. This range features universal 85-264V AC 50/60Hz AC input and single output options of 5vdc, 9V DC, 12V DC and 24V DC (15W series includes a 48V DC version) in a compact package. All models feature inbuilt protection for overvoltage, short circuit and over temperature conditions and meet international safety and EMC standards.

- Universal Input: 85 -264V AC, 50/60Hz
- Low noise and ripple
- Over-voltage protection
- Short circuit protection
- Over temperature protection
- High efficiency
- High power density

Technical specification

Model No	Output Power	Input Voltage	Output Voltage(s)	Output Current(s)	Dimensions
PH10-10B03	10W	85 - 264V AC 50/60Hz	3.3V	2.0A	55 x 45 x 21mm
PH10-10B05	10W	85 - 264V AC 50/60Hz	5.0V	2.0A	55 x 45 x 21mm
PH10-10B09	10W	85 - 264V AC 50/60Hz	9.0V	1.1A	55 x 45 x 21mm
PH10-10B12	10W	85 - 264V AC 50/60Hz	12V	900mA	55 x 45 x 21mm
PH10-10B15	10W	85 - 264V AC 50/60Hz	15V	700mA	55 x 45 x 21mm
PH10-10B24	10W	85 - 264V AC 50/60Hz	24V	450mA	55 x 45 x 21mm
PH10-10A05	10W	85 - 264V AC 50/60Hz	+5V/-5V	1.0A/1.0A	55 x 45 x 21mm
PH10-10A12	10W	85 - 264V AC 50/60Hz	+12V/-12V	450mA/450mA	55 x 45 x 21mm
PH10-10A15	10W	85 - 264V AC 50/60Hz	+15V/-15V	350mA/350mA	55 x 45 x 21mm
PH10-10A24	10W	85 - 264V AC 50/60Hz	+24V/-24V	200mA/200mA	55 x 45 x 21mm
PH10-10D0505-02	10W	85 - 264V AC 50/60Hz	+5V/+5V	1.8A/200mA	55 x 45 x 21mm
PH10-10D0512-02	10W	85 - 264V AC 50/60Hz	+5V/+12V	1.5A/200mA	55 x 45 x 21mm
PH10-10D0515-02	10W	85 - 264V AC 50/60Hz	+5V/+15V	1.4A/200mA	55 x 45 x 21mm
PH10-10D0524-02	10W	85 - 264V AC 50/60Hz	+5V/+24V	1.0A/200mA	55 x 45 x 21mm
PD10-20B03	6.6W	85 - 264V AC 50/60Hz	3.3V	2.0A	53.5 x 28.5 x 19mm
PD10-20B05	10W	85 - 264V AC 50/60Hz	5V	2.0A	53.5 x 28.5 x 19mm
PD10-20B09	10W	85 - 264V AC 50/60Hz	9V	1.1A	53.5 x 28.5 x 19mm
PD10-20B12	10W	85 - 264V AC 50/60Hz	12V	0.9A	53.5 x 28.5 x 19mm
PD10-20B15	10W	85 - 264V AC 50/60Hz	15V	0.7A	53.5 x 28.5 x 19mm
PD10-20B24	10W	85 - 264V AC 50/60Hz	24V	0.45A	53.5 x 28.5 x 19mm

Type	Order code	1+	10+
10W PD10-20B03	**84-2646**	13.01	11.80
10W PD10-20B05	**84-2634**	13.80	12.51
10W PD10-20B12	**84-2636**	13.80	12.51
10W PD10-20B24	**84-2637**	13.80	12.51
15W PH15-10B05	**84-2638**	15.30	13.86
15W PH15-10B09	**84-2639**	15.30	13.86
15W PH15-10B12	**84-2640**	15.30	13.86
15W PH15-10B24	**84-2641**	15.30	13.86

119272

No minimum order value
UK mainland only

RVFM

12V and 24V DC to 230V AC Inverters

A range of regulated DC-to-AC inverters to power 230V AC equipment from a suitable 12 or 24V car or lorry battery. Due to their high performance (>90%), the inverters generate very little heat. The high stability of the output frequency makes them equally suitable to power sensitive devices. The output is a modified sine wave so is suitable for powering domestic appliances such as videos, portable TVs etc.

It is important to ensure that the power rating of the appliance is less than the continuous power of the inverter.

Input connections vary, please see the Technical Specification table. All models have a standard UK 13A mains socket(s).

- UK 13A mains output socket(s)
- See Technical Specification for input connector types
- Output short-circuit protection
- Input polarity protection (fuse)
- High DC input voltage protection
- Battery low alarm
- Battery low shutdown
- Overload and over temperature protection
- 300W model available in 12 and 24V options

Technical specification

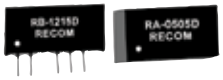
Order code	**85-1970**	**85-1972**	**85-1974**	**85-1956**	**85-1957**	**85-1955**
Power rating	150W	300W, 12V	600W	1000W	2500W	300W, 24V
Peak power	300W	600W	1000W	2000W	5000W	600W
Standby current	<0.36A	<0.36A	<0.6A	<0.4A	<0.7A	<0.18A
Output voltage	230V ±10%	230V ±10%	230V ±10%	230V ±10%	230V ±10%	230V ±10%
Wave form	50Hz modified sine	50Hz modified sine	50Hz modified sine	50Hz modified sine	50Hz modified sine	50Hz modified sine
DC input	10V to 15V DC	10V to 15V DC	10V to 15V DC	10V to 15V DC	10V to 15V DC	20 to 30V DC
Battery alarm	at 10.5V	at 10.5V	at 10.5V	at 10.5V	at 10.5V	at 21V ± 0.8V
Auto shutdown	at 10.0V	at 10.0V	at 10.0V	at 10.0V	at 10.0V	at 20V ± 0.8V
Efficiency	90%	90%	90%	90%	90%	90%
Input fuse	15A	15A/15A	25A	15A	30A	20A/10A
Input connections	Cigar lighter plug	Cigar lighter plug + Croc clips	Crocodile clips	Crocodile clips	Ring terminal	Cigar lighter plug + Croc clips
Cooling fan	none	1	1	1	1	1
Dimensions (mm)	122x73x70	163x90x75	280x173x65	320x210x85	430x210x159	163x90x75

Type	Order code	1+	5+	10+
12V, 150W Inverter	**85-1970**	19.92	18.25	15.62
12V, 300W Inverter	**85-1972**	30.64	28.39	25.32
24V, 300W Inverter	**85-1955**	30.64	28.39	25.32
12V, 600W Inverter	**85-1974**	60.53	51.22	47.56
12V, 1000W Inverter	**85-1956**	109.86	93.71	85.10
12V, 2500W Inverter	**85-1957**	173.38		

066840

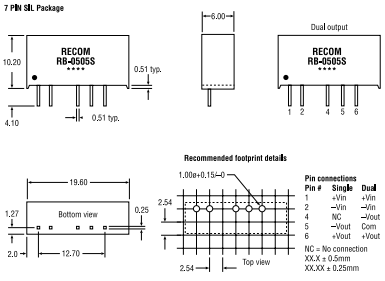
RECOM

1W Dual Output DC to DC Converters – RA/RB Series



A range of 1W dual output DC to DC converters in industry standard SIL or DIL packages. Competitively priced this range features:

- Dual output from a single input rail
- Industry standard pinout
- Over 70% efficiency
- Power sharing on output
- **UL 94V-0** package material



Technical specification

Nominal input voltage	5, 12 or 24V
Input voltage variation	±10%
Load voltage regulation	±10% typ.
Output voltage accuracy	±5%
Output ripple and noise	50mV peak to peak max.
Efficiency	>70%

		SIL package				DIL package	
Vin	Vout	Recom type	Order code	Vin	Vout	Recom type	Order code
5	±5	**RB-0505D**	**84-2270**	5	±5	**RA-0505D**	**84-2290**
5	±12	**RB-0512D**	**84-2272**	5	±12	**RA-0512D**	**84-2292**
5	±15	**RB-0515D**	**84-2274**	5	±15	**RA-0515D**	**84-2294**
12	±5	**RB-1205D**	**84-2276**	12	±5	**RA-1205D**	**84-2296**
12	±12	**RB-1212D**	**84-2278**	12	±12	**RA-1212D**	**84-2298**
12	±15	**RB-1215D**	**84-2280**	12	±15	**RA-1215D**	**84-2300**
24	±12	**RB-2412D**	**84-2284**				
24	±15	**RB-2415D**	**84-2286**				

Input voltage	Output voltage	Order code	1+	5+	10+
SIL package					
5V	5V	**84-2270**	3.72	3.30	3.06
5V	12V	**84-2272**	3.72	3.30	3.06
5V	15V	**84-2274**	3.72	3.30	3.06
12V	5V	**84-2276**	4.22	3.75	3.47
12V	12V	**84-2278**	3.72	3.30	3.06
12V	15V	**84-2280**	3.72	3.30	3.06
24V	12V	**84-2284**	4.10	3.64	3.38
24V	15V	**84-2286**	4.41	4.04	3.72
12V	5V	**84-2296**	4.54	4.04	3.73

036108

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